DEPARTMENT OF HEALTH AND HUMAN SERVICES

NATIONAL INSTITUTES OF HEALTH

National Institute on Drug Abuse (NIDA)

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NOTE: The FY 2016 Enacted funding amounts cited throughout this chapter reflect the effects of OAR HIV/AIDS Transfers.

DIVISION OF THERAPEUTICS AND MEDICAL CONSEQUENCES INTRAMURAL RESEARCH PROGRAM Phil Skolnick, Ph.D., D.Sc. Antonello Bonci, M.D. Scientifc Director Director DIVISION OF NEUROSCIENCES AND BEHAVIOR OFFICE OF SCIENCE POLICY AND COMMUNICATIONS Jack B. Stein, Ph.D. Joni Rutter, Ph.D Director Director National Institute on Drug Abuse **Organizational Structure** Joellen Austin, MPAff, MSM Associate Director for Management Wilson Compton, M.D., M.P.E. OFFICE OF THE DIRECTOR Nora D. Volkow, M.D. Director **Deputy Director** DIVISION OF EXTRAMURAL RESEARCH CENTER FOR THE CLINICAL TRIALS NETWORK Susan Weiss, Ph.D Associate Director for Scientific Affairs Betty Tai, Ph.D. Director Joellen Austin,MPAff, MSM Director **OFFICE OF MANAGEMENT** DIVISION OF EPIDEMIOLOGY, SERVICES AND PREVENTION RESEARCH Carlos Blanco, M.D., Ph.D. Director

National Institutes of Health

NATIONAL INSTITUTES OF HEALTH

National Institute on Drug Abuse

For carrying out section 301 and title IV of the PHS Act with respect to drug abuse, [\$1,077,488,000]\$1,020,459,000.

Amounts Available for Obligation¹

| Course of Eunding | FY 2015 Actual | FY 2016 Enacted | FY 2017 President's |
|-------------------------------------|----------------|-----------------|---------------------|
| Source of Funding | FY 2015 Actual | FY 2010 Enacted | Budget |
| Appropriation | \$1,028,614 | \$1,077,488 | \$1,050,550 |
| Mandatory Appropriation: (non-add) | | | |
| Type 1 Diabetes | (0) | (0) | (0) |
| Other Mandatory financing | (0) | (0) | (30,091) |
| Rescission | 0 | 0 | 0 |
| Sequestration | 0 | 0 | 0 |
| FY 2015 First Secretary's Transfer | 0 | 0 | 0 |
| FY 2015 Second Secretary's Transfer | 0 | 0 | 0 |
| Subtotal, adjusted appropriation | \$1,028,614 | \$1,077,488 | \$1,050,550 |
| OAR HIV/AIDS Transfers | -12,909 | -26,938 | 0 |
| National Children's Study Transfers | 0 | 0 | 0 |
| Subtotal, adjusted budget authority | \$1,015,705 | \$1,050,550 | \$1,050,550 |
| Unobligated balance, start of year | 0 | 0 | 0 |
| Unobligated balance, end of year | 0 | 0 | 0 |
| Subtotal, adjusted budget authority | \$1,015,705 | \$1,050,550 | \$1,050,550 |
| Unobligated balance lapsing | -10 | 0 | 0 |
| Total obligations | \$1,015,695 | \$1,050,550 | \$1,050,550 |

 $^{^1}$ Excludes the following amounts for reimbursable activities carried out by this account: FY 2015 - \$72,664 FY 2016 - \$44,516 FY 2017 - \$101,502

NATIONAL INSTITUTES OF HEALTH FY 2017 Congressional Justification NIDA

Budget Mechanism - Total¹

| Research Centers | MECHANISM | FY 20 | 015 Actual | FY 20 | 16 Enacted | FY 2017 Pro | esident's Budget ³ | | Y 2017 +/- |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------|-------------|-------|-------------|-------------|-------------------------------|-------|---------------|
| Noncomprograge | | No. | Amount | No. | Amount | No. | Amount | | |
| Noncomprograge | | | | | | | | | |
| Administration Septembers (115) 6,008 (116) 7,000 (116) 7,000 Recoval 46 (27,526 47 28,500 53 42,485 6 13,3 142,686 200 111,364 200 119,371 4 1-13, 13,472,686 200 111,364 200 119,371 4 1-13,585,571 11,364 200 11,364 200 11,364 200 11,364 200 11,364 200 200 11,364 200 200 200 200 200 200 200 200 200 20 | | 007 | 6427.545 | 042 | 6494 021 | 070 | 64(2.2(9 | (1 | 621.75 |
| Compensing | | | · · | | | | | -64 | -\$21,/5: |
| Reneward 46 | | (115) | 6,968 | (116) | 7,000 | (116) | 7,000 | | |
| New 313 142,566 20 | | 16 | 27 924 | 47 | 20 500 | 52 | 42 405 | | 12.004 |
| Supplement | | | | | | | | 1 | |
| Saboual Competers | | 313 | 142,306 | 209 | 111,004 | 203 | 109,917 | -4 | -1,907 |
| Sebenda Piros 1.246 S603,095 1.258 S613,100 1.196 S612,670 -c. S92,5818ESTTR 46 22,77 46 22,77 46 22,77 47 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 24,77 2 | | 250 | \$170.202 | 216 | \$140.284 | 219 | \$152.402 | 2 | \$12.019 |
| SIRESTIR 46 22,173 46 24,778 49 26,437 3 1.5 Research Contex 1 202 5526,078 1,364 555,618 1,245 5648,107 -59 -586, 88.6 Research Contex Specials Contex S | | | | | | | | | |
| Research Centers | | | | | | | | | 1,659 |
| Specialized Comprehense 34 \$58,491 34 \$59,662 34 \$59,662 | Research Project Grants | | | | | | | | -\$8,076 |
| Specialized Comprehense 34 \$58,491 34 \$59,662 34 \$59,662 | Research Centers: | | | | | | | | |
| Circuit Research Medicine | | 34 | \$58,491 | 34 | \$59,662 | 34 | \$59,662 | | |
| Comparative Medicine Research Centers Minory Institutions Security Centers Security Center Security | | | | | | | | | |
| Comparative Medicine Research Centers Minory Institutions Security Centers Security Center Security | | | | | | | | | |
| Security | | | | | | | | | |
| Other Research Research Carcer Carcer Education Carcer Educa | Research Centers in Minority Institutions | | | | | | | | |
| Research Carcers | Research Centers | 34 | \$58,491 | 34 | \$59,662 | 34 | \$59,662 | | |
| Research Carcers | Other Bereich | | | | | | | | |
| Cancer fiducation 13 30,399 13 30,399 13 30,399 15 30,399 16 30,399 17 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,399 30,39 | | 200 | \$24.080 | 200 | \$24.421 | 200 | \$24.421 | | |
| Cooperative Chieal Research Support 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 30,399 13 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14,200 14, | | 200 | 334,080 | 200 | 334,421 | 200 | \$34,421 | | |
| Biomedical Research Support 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 1,311 | | 13 | 30 399 | 13 | 30 399 | 13 | 30 399 | | |
| Minority Bornedical Research Support | - | 13 | 30,377 | 1.5 | 30,377 | 13 | 30,377 | | |
| Other Other Presentch | | | 1 311 | | 1 311 | | 1 311 | | |
| Other Research 283 \$80,716 284 \$\$1,057 284 \$\$1,057 70 tal Research Grants 1,609 \$765,285 1,622 \$796,902 1,563 \$788,826 -59 -\$8,0 | | 70 | | 71 | | 71 | | | |
| Total Research Grants | | | | | | | | | |
| Individual Awards | | 1,609 | \$765,285 | | | | | -59 | -\$8,076 |
| Individual Awards | | | · | | · | | | | |
| Institutional Awards | Ruth L Kirchstein Training Awards: | FTTPs | | FTTPs | | FTTPs | | FTTPs | |
| Total Research Training | Individual Awards | 135 | \$5,430 | 136 | \$5,634 | 135 | \$5,634 | -1 | |
| Research & Develop. Contracts (SBIRSTTR) (non-add) 2 | Institutional Awards | 411 | 18,301 | 417 | 19,070 | 415 | 19,070 | -2 | |
| Subtotal Labor/HIS Budget Authority S1,015,705 S1,050,550 S1,020,459 S30,001 Total, NIH Discretionary B.A. S1,015,705 S1,050,550 S1,020,459 S1,0001 S1,0015,705 S1,050,550 S1,020,459 S1,050,550 S1, | Total Research Training | 546 | \$23,731 | 553 | \$24,704 | 550 | \$24,704 | -3 | |
| Subtotal Labor/HIS Budget Authority S1,015,705 S1,050,550 S1,020,459 S30,001 Total, NIH Discretionary B.A. S1,015,705 S1,050,550 S1,020,459 S1,0001 S1,0015,705 S1,050,550 S1,020,459 S1,050,550 S1, | | | | | | | | | |
| Intranural Research Res. Management & Support Res. Management & Suppor | _ | | · · | | | | | | \$5,778 |
| Res. Management & Support Res. Management & Support Res. Management & Support (SBIR Admin) (non-add) 2 Res. Management & Support (SBIR Admin) (non-add) 2 Office of the Director - Appropriation 2 Office of the Director - Other ORIPSEPA (non-add) 2 Common Fund (non-add) 2 Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing Other Mandatory Financing Subtotal, Labor/HHS Budget Authority Interior Appropriation for Superfund Res. Total, NH Discretionary B.A. S1,015,705 S1,050,550 S1,020,459 S30,0 S1,020,459 S30,0 S1,020,459 S30,0 Total, NHB Budget Authority S1,015,705 S1,050,550 S1,020,459 S30,0 Total, NHB Budget Authority S1,015,705 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 | (SBIR/STTR) (non-add) ² | (15) | (6,442) | (14) | (6,200) | (14) | (6,200) | | |
| Res. Management & Support Res. Management & Support Res. Management & Support (SBIR Admin) (non-add) 2 Res. Management & Support (SBIR Admin) (non-add) 2 Office of the Director - Appropriation 2 Office of the Director - Other ORIPSEPA (non-add) 2 Common Fund (non-add) 2 Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing Other Mandatory Financing Subtotal, Labor/HHS Budget Authority Interior Appropriation for Superfund Res. Total, NH Discretionary B.A. S1,015,705 S1,050,550 S1,020,459 S30,0 S1,020,459 S30,0 S1,020,459 S30,0 Total, NHB Budget Authority S1,015,705 S1,050,550 S1,020,459 S30,0 Total, NHB Budget Authority S1,015,705 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 S1,050,550 | Intramural Research | 128 | \$88.978 | 129 | \$90,303 | 129 | \$91.657 | | \$1,354 |
| Res. Management & Support (SBIR Admin) (non-add) 2 (340) (360) (360) (-360) Office of the Director - Appropriation 2 (340) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (360) (3 | Res. Management & Support | 268 | 61,988 | 271 | 62,918 | 271 | 63,862 | | 944 |
| Office of the Director - Appropriation 2 Office of the Director - Other Office of the Director - Other ORIP/SEPA (non-add) 2 Common Fund (non-add) 2 Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing Other Mandatory Financing Subtotal, Labor/HHS Budget Authority Subtotal, Subt | | | | | | | ,. | | (-360) |
| Office of the Director - Other ORIP/SEPA (non-add)² Common Fund (non-add)² Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing -30,091 Cancer Initiative Mandatory Financing -30,091 Other Mandatory Financing 51,015,705 Subtotal, Labor/HHS Budget Authority \$1,015,705 Interior Appropriation for Superfund Res. -530,0 Total, NIH Discretionary B.A. \$1,015,705 Type 1 Diabetes -530,0 Proposed Law Funding -530,0 Cancer Initiative Mandatory Financing -530,0 Other Mandatory Financing -530,0 Total, NIH Budget Authority \$1,015,705 S1,050,550 \$1,050,550 Frogram Evaluation Financing -530,0 Frogram Evaluation Financing -51,050,550 | | | | | | | | | |
| ORIP/SEPA (non-add) 2 Common Fund (non-add) 2 Buildings and Facilities Appropriation | Office of the Director - Appropriation 2 | | | | | | | | |
| Common Fund (non-add) 2 Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing -30,091 -30,0 -30,091 -30,0 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,091 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 -30,001 -30,0 | Office of the Director - Other | | | | | | | | |
| Buildings and Facilities Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -3 | ORIP/SEPA (non-add) ² | | | | | | | | |
| Appropriation Type 1 Diabetes Program Evaluation Financing Cancer Initiative Mandatory Financing Cancer Initiative M | Common Fund (non-add) ² | | | | | | | | |
| Type Diabetes Cancer Initiative Mandatory Financing Cancer Initiative Mandator | Buildings and Facilities | | | | | | | | |
| Program Evaluation Financing | ** * | | | | | | | | |
| Cancer Initiative Mandatory Financing | Type 1 Diabetes | | | | | | | | |
| Other Mandatory Financing -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30,091 -30, | Program Evaluation Financing | | | | | | | | |
| Subtotal, Labor/HHS Budget Authority \$1,015,705 \$1,050,550 \$1,020,459 \$-\$30,0 Interior Appropriation for Superfund Res. | | | | | | | | | |
| Interior Appropriation for Superfund Res. | Other Mandatory Financing | | | | | | -30,091 | | -30,091 |
| Total, NIH Discretionary B.A. \$1,015,705 \$1,050,550 \$1,020,459 -\$30,0 | Subtotal, Labor/HHS Budget Authority | | \$1,015,705 | | \$1,050,550 | | \$1,020,459 | | -\$30,091 |
| Type Diabetes | | | | | | | | | |
| Proposed Law Funding | - | | \$1,015,705 | | \$1,050,550 | | \$1,020,459 | | -\$30,091 |
| Cancer Initiative Mandatory Financing 30,091 30,09 30,09 30,09 30,00 30,00 Total, NIH Budget Authority \$1,015,705 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 \$1,050,550 | | | | | | | | | |
| Other Mandatory Financing 30,091 30,09 Total, NIH Budget Authority \$1,015,705 \$1,050,550 \$1,050,550 Program Evaluation Financing \$1,000,000 \$1,000,000 \$1,000,000 | | | | | | | | | |
| Total, NIH Budget Authority \$1,015,705 \$1,050,550 \$1,050,550 Program Evaluation Financing | | | | | | | 20.001 | | 20.001 |
| Program Evaluation Financing | | | £1 015 705 | | Q1 050 550 | | | | 30,091 |
| | | | \$1,015,705 | | \$1,050,550 | | \$1,050,550 | | |
| | Total, Program Level | | \$1,015,705 | | \$1,050,550 | | \$1,050,550 | | |

<sup>All Subtotal and Total numbers may not add due to rounding.
All numbers in italies and brackets are non-add.
Includes mandatory financing.</sup>

Major Changes in the Fiscal Year 2017 President's Budget Request

The FY 2017 President's Budget for NIDA is \$1,050.550 million, which is the same as the FY 2016 Enacted level, results in no major changes.

Summary of Changes

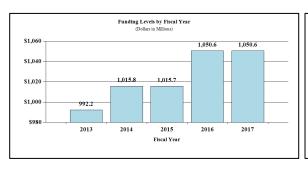
| FY 2016 Enacted | | \$1,050,550 |
|----------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------|
| FY 2017 President's Budget | | \$1,050,550 |
| Net change | 1 | \$0 |
| | FY 2017 President's Budget ¹ | Change from FY 2016 |
| CHANGES | FTEs Budget Authority | FTEs Budget Authority |
| A. Built-in: | | |
| 1. Intramural Research: | | |
| a. Annualization of January 2016 pay increase & benefits | \$25,165 | \$86 |
| b. January FY 2017 pay increase & benefits | 25,165 | 259 |
| c. Two less days of pay | 25,165 | -95 |
| d. Differences attributable to change in FTE | 25,165 | 0 |
| e. Payment for centrally furnished services | 10,188 | 248 |
| f. Increased cost of laboratory supplies, materials, other expenses, and non-recurring costs | 56,304 | 854 |
| Subtotal | | \$1,354 |
| Research Management and Support: | | |
| a. Annualization of January 2016 pay increase & benefits | \$36,035 | \$127 |
| b. January FY 2017 pay increase & benefits | 36,035 | 382 |
| c. Two less days of pay | 36,035 | -136 |
| d. Differences attributable to change in FTE | 36,035 | 0 |
| e. Payment for centrally furnished services | 5,694 | 139 |
| f. Increased cost of laboratory supplies, materials, other expenses, and non-recurring costs | 22,133 | 432 |
| Subtotal | | \$944 |
| | | |
| Subtotal, Built-in | | \$2,298 |

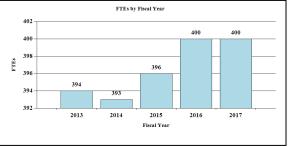
| | FY 2017 Pr | esident's Budget¹ | Change from FY 2016 | | |
|---------------------------------------|------------|-------------------|---------------------|-----------|--|
| CHANGES | No. | Amount | No. | Amount | |
| B. Program: | | | | | |
| 1. Research Project Grants: | | | | | |
| a. Noncompeting | 878 | \$469,268 | -64 | -\$21,753 | |
| b. Competing | 318 | 152,402 | 2 | 12,018 | |
| c. SBIR/STTR | 49 | 26,437 | | 1,659 | |
| Subtotal, RPGs | 1,245 | \$648,107 | -59 | -\$8,076 | |
| 2. Research Centers | 34 | \$59,662 | 0 | \$0 | |
| 3. Other Research | 284 | 81,057 | 0 | 0 | |
| 4. Research Training | 550 | 24,704 | -3 | 0 | |
| 5. Research and development contracts | 87 | 81,501 | 0 | 5,778 | |
| Subtotal, Extramural | | \$895,031 | | -\$2,298 | |
| | FTEs | | FTEs | | |
| 6. Intramural Research | 129 | \$91,657 | 0 | \$0 | |
| 7. Research Management and Support | 271 | 63,862 | 0 | 0 | |
| 8. Construction | | 0 | | 0 | |
| Buildings and Facilities | | 0 | | 0 | |
| Subtotal, Program | 400 | \$1,050,550 | 0 | -\$2,298 | |
| | | | | | |
| Total changes | | | | \$0 | |

¹ Includes mandatory financing.

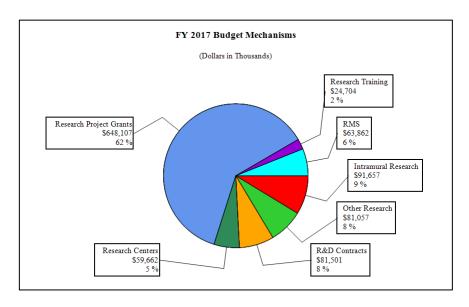
Fiscal Year 2017 Budget Graphs

History of Budget Authority and FTEs:

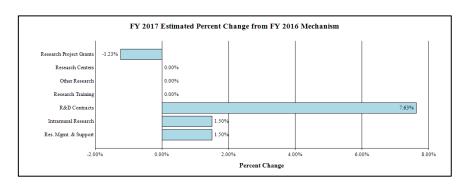




Distribution by Mechanism (dollars in thousands):



Change by Selected Mechanism:



NATIONAL INSTITUTES OF HEALTH

National Institute on Drug Abuse

Budget Authority by Activity¹ (Dollars in Thousands)

| | FY 2015 Actual | | FY 2016 Enacted | | FY 2017 President's Budget ² | | | 2017 +/- 2016 |
|------------------------------------------------------------|----------------|-------------|-----------------|-------------|-----------------------------------------|-------------|-----|---------------------|
| Extramural Research | FTE | Amount | FTE | Amount | FTE | Amount | FTE | Amount |
| <u>Detail</u> | | | | | | | | |
| Division of Therapeutics and Medical Consequences | | | | \$178,838 | | \$178,380 | | -\$458 |
| Division of Neuroscience and Behavior | | | | 351,035 | | 350,136 | | -899 |
| Division of Basic Neuroscience & Behavioral Research | | 429,869 | | | | | | 0 |
| Division of Epidemiology, Services and Prevention Research | | 265,357 | | 324,205 | | 323,375 | | -830 |
| Pharmacotherapies and Medical Consequences | | 127,795 | | 0 | | 0 | | 0 |
| Center for the Clinical Trials Network | | 41,718 | | 43,251 | | 43,140 | | -111 |
| Subtotal, Extramural | | \$864,739 | | \$897,329 | | \$895,031 | | -\$2,298 |
| Intramural Research | 128 | \$88,978 | 129 | \$90,303 | 129 | \$91,657 | 0 | \$1,354 |
| Research Management & Support | 268 | \$61,988 | 271 | \$62,918 | 271 | \$63,862 | 0 | \$944 |
| TOTAL | 396 | \$1,015,705 | 400 | \$1,050,550 | 400 | \$1,050,550 | 0 | \$0 |

 $^{^1}$ Includes FTEs whose payroll obligations are supported by the NIH Common Fund. 2 Includes mandatory financing.

Authorizing Legislation

| | PHS Act/ Other Citation | U.S. Code Citation | 2016 Amount Authorized | FY 2016 Enacted | 2017 Amount Authorized | FY 2017 President's Budget ¹ |
|----------------------------------|----------------------------|-----------------------|---------------------------|-----------------|---------------------------|--------------------------------------------|
| Research and Investigation | Section 301 | 42§241 | Indefinite | | Indefinite | |
| | | | > | \$1,050,550,000 | > | \$1,020,459,000 |
| National Institute on Drug Abuse | Section 401(a) | 42§281 | Indefinite | | Indefinite | |
| | | | | | | |
| Total, Budget Authority | | • | | \$1,050,550,000 | | \$1,020,459,000 |

¹Excludes mandatory financing.

Appropriations History

| Fiscal Year | Budget Estimate to Congress | House Allowance | Senate Allowance | Appropriation |
|-------------------|--------------------------------|-----------------|------------------|-----------------|
| 2007 | \$994,829,000 | \$994,829,000 | \$1,000,342,000 | \$1,000,621,000 |
| Rescission | | | | \$0 |
| 2008 | \$1,000,365,000 | \$1,015,559,000 | \$1,022,594,000 | \$1,018,493,000 |
| Rescission | | | | \$17,793,000 |
| Supplemental | | | | \$5,322,000 |
| 2009 | \$1,001,672,000 | \$1,035,997,000 | \$1,029,539,000 | \$1,032,759,000 |
| Rescission | | | | \$0 |
| 2010 | \$1,045,384,000 | \$1,069,583,000 | \$1,050,091,000 | \$1,059,848,000 |
| Rescission | | | | \$0 |
| 2011 | \$1,094,078,000 | | \$1,092,369,000 | \$1,059,848,000 |
| Rescission | | | | \$9,306,097 |
| 2012 | \$1,080,018,000 | \$1,080,018,000 | \$1,038,714,000 | \$1,055,362,000 |
| Rescission | | | | \$1,994,634 |
| 2013 | \$1,054,001,000 | | \$1,057,196,000 | \$1,053,367,366 |
| Rescission | | | | \$2,106,735 |
| Sequestration | | | | (\$52,871,798) |
| 2014 | \$1,071,612,000 | | \$1,064,490,000 | \$1,025,435,000 |
| Rescission | | | | \$0 |
| 2015 | \$1,023,268,000 | | | \$1,028,614,000 |
| Rescission | | | | \$0 |
| 2016 | \$1,047,397,000 | \$1,050,875,000 | \$1,069,086,000 | \$1,077,488,000 |
| Rescission | | | | \$0 |
| 2017 ¹ | \$1,050,550,000 | | | |

¹ Includes mandatory financing.

Justification of Budget Request

National Institute on Drug Abuse

Authorizing Legislation: Section 301 and Title IV of the Public Health Service Act, as amended.

Budget Authority (BA):

| | | | FY 2017 | FY 2017 |
|-----|------------------------|-----------------|-----------------|---------|
| | FY 2015 | FY 2016 | President's | +/- |
| | Actual | Enacted | Budget | FY 2016 |
| D.A | Φ1 015 CO5 3 05 | Φ1 050 550 000 | Φ1 050 550 000 | 0 |
| BA | \$1,015,695,285 | \$1,050,550,000 | \$1,050,550,000 | U |
| FTE | 396 | 400 | 400 | 0 |

Program funds are allocated as follows: Competitive Grants/Cooperative Agreements; Contracts; Direct Federal/Intramural and Other.

Director's Overview

Substance use and its consequences take an enormous toll on our Nation. The combined healthcare, crime-related, and productivity costs alone exceed \$600 billion a year, but dollars poorly approximate the devastating human cost of substance use disorders (SUDs). Drug abuse and addiction present complex and continuously evolving challenges currently dominated by an ongoing epidemic of prescription opioid abuse that is now contributing to a rise in heroin use as well as dramatic HCV and HIV outbreaks; by the emergence of new synthetic drugs as well as new drug delivery systems such as e-cigarettes and vaporizers that are changing how people use drugs; and by rapidly changing State policies and social norms related to marijuana. The National Institute on Drug Abuse (NIDA) strives to meet these challenges by strategically supporting and conducting basic, clinical, and services research on drug use, its consequences, and the underlying neurobiological and behavioral mechanisms involved, and by working with Federal, State, and community partners to support the effective translation and implementation of scientific research findings to improve the prevention and treatment of SUDs.

Basic research: Understanding the neurobiology of addiction

Drug use and addiction are mediated by numerous biological, environmental, social, behavioral, and developmental factors. A more detailed understanding of the interactions among these factors and how they contribute to the risk for addiction and other negative consequences of drug use is critical for developing better prevention and treatment strategies. NIDA supports a robust portfolio of basic research to understand the mechanisms that underlie the transition from drug use to addiction and the brain changes that characterize SUDs. One illustrative example of this type of research is the Adolescent Brain Cognitive Development (ABCD) study, a landmark effort led by NIDA in partnership with the National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Cancer Institute (NCI), and other NIH partners (the Collaborative Research on Addiction at NIH, or CRAN) that officially launched in September 2015 with the award of 13 grants. Researchers will recruit approximately 10,000 children at age 9 or 10 – before initiation

of drug use – and collect detailed neuroimaging, genetic, behavioral, environmental and other health data at periodic intervals over the course of a decade. Data produced by this study will enable scientists to assess the effects of different patterns of substance use (including no use) on the developing brain, mental health, and outcomes like academic achievement, as well as a wide range of other factors affecting young Americans' lives and health.

Leveraging Technology Advances: Big Data and Precision Medicine

The rapid progress of addiction research in the past few years has been fueled in part by technological advances, particularly in brain imaging, high-throughput genotyping, genetic tools for the manipulation of neuronal circuits, and health information technology (HIT) tools (e.g., electronic health records and mobile health applications). Addiction science is fast approaching a data analysis bottleneck. For example, sequencing technologies have reached the point where it is now far cheaper to sequence whole genomes than to analyze the results. NIDA has begun a long-term effort – known as the Addictome Project – to develop the infrastructure necessary to analyze complex systems (drawing from mathematics, statistics, engineering, computer science, and bioinformatics) in ways that allow researchers to investigate behaviors of non-linear, highly interactive systems. Such analytical and modeling tools are urgently required to take full advantage of the emerging data sets and to address multi-faceted questions, such as how genes linked to addiction influence brain function and the response to drugs of abuse; and how social and environmental stimuli can interact to influence brain circuit function. Understanding the complexity of interacting biological, environmental, and social factors that contribute to and sustain SUDs also presents significant opportunities for the application of precision medicine. An individual's environment, experience, and biology combine to determine their risk for developing an SUD, the trajectory the SUD will take, and the interventions that will be most effective for treating it. This is the inspiration behind the President's Precision Medicine Initiative, which will provide a foundation for the development of personalized interventions addressing the multiplicity of individual characteristics.

Strategic Partnerships: Advancing Discovery and Translation

SUDs represent complex public health problems that require coordinated, multi-faceted efforts to address. NIDA engages in numerous strategic partnerships to achieve its mission. For example, the ongoing epidemic of prescription opioid and heroin abuse is a serious national issue with devastating consequences, including not just opioid use disorders and related overdoses, but also a rising incidence of newborns who experience neonatal abstinence syndrome and increased spread of infectious diseases, including HIV and hepatitis C. Existing effective treatments are highly underutilized across the United States. As part of the Department of Health and Human Services' Opioid Initiative, NIDA is partnering with other Federal agencies to address this crisis.

The Opioid Initiative emphasizes the implementation of evidence-based prevention and treatment strategies, which include not only better prescription practices but also deployment of medication to combat overdoses (such as naloxone) and medication – assisted treatment (MAT) to treat opioid use disorders. Under this initiative, NIDA is focused on supporting research and disseminating research findings to: 1) improve opioid prescribing practices; 2) expand the use of naloxone; 3) improve the integration of MAT pharmacotherapies into treatment services in specialty care and primary care; and 4) develop pain treatments with reduced potential for misuse and diversion.

To achieve these goals, NIDA is working with diverse community stakeholders. For example, NIDA has initiated multiple strategic partnerships to advance development of medications for pain, leveraging NIDA funds with the strengths and resources of outside organizations, including academic institutions, pharmaceutical and biotechnology companies, private and public foundations, and small businesses. This includes research to identify new pain medicines with reduced abuse, tolerance, and dependence risk; developing new formulations of pain and addiction treatment medications that minimize diversion and non-medical use (e.g., by preventing tampering) and reduce the risk of overdose deaths. For example, NIDA has partnered with Titan Pharmaceuticals and Braeburn Pharmaceuticals to develop a formulation of buprenorphine to be implanted under the skin. This formulation, called Probuphine, would deliver a steady dose of buprenorphine for six months, an innovation that could improve patient adherence to treatment for opioid use disorder (see program portrait).

NIDA is also working closely with community stakeholders to improve education of healthcare providers on both pain management and addressing SUDs. For example, NIDA, in partnership with the NIH Pain Consortium, funds 11 Centers of Excellence for Pain Education (CoEPEs) that act as hubs for the development, evaluation, and distribution of pain-management curriculum resources for medical, dental, nursing, and pharmacy schools that address SUD risk.

Program Descriptions and Accomplishments

Basic and Clinical Neuroscience: The Basic and Clinical Neuroscience portfolio seeks to expand our understanding of the fundamental neurological, genetic/epigenetic, and behavioral processes that underlie SUDs. Central to this goal are efforts to tease apart the multiple factors that contribute to drug abuse and addiction risk, with particular attention to individual differences in risk and responses to drugs while at the same time expanding our basic knowledge of the function of the brain from the molecular to the behavioral level. Key projects are investigating the effects of drugs on gene expression and brain development and function, and exploring gender-related differences in these effects. Risk for addiction is profoundly affected by an individual's genes as well as environmental conditions, such as stress and early exposure to drugs of abuse. Additional studies are exploring the mechanisms underlying these effects, including the role of epigenetic changes that can influence long-term patterns of gene expression in specific brain cells (neuron and glia) without changing DNA sequence. NIDA is leading the NIH Common Fund (CF) Epigenomics Program and co-leads a CF workgroup to eukaryotic epitranscriptomics. A relatively new focus is to develop the capacity to support big data science to promote efficient analysis of large integrated data sets on a scale not previously possible (see program portrait). NIDA is the lead for the NIH Blueprint-supported Neuroscience Information Framework, a dynamic inventory of Web-based neuroscience resources, data, and tools for scientists and students. Collectively, these efforts will improve our understanding of the basic neural and genetic mechanisms that underlie drug abuse and addiction and will provide critical insights toward the development of more effective approaches for the prevention and treatment of SUDs. For example, continuing efforts to improve our understanding of the endocannabinoid system are opening up new areas of investigation for the development of novel pain and addiction treatments. Other projects are exploring the basic processes underlying resilience against SUDs in childhood and adolescence. In addition, and in line with the goals of the

President's Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, NIDA is supporting research to: 1) develop advanced technologies that improve our ability to study the organization and function of the living brain; 2) better understand the interactions of complex neural circuits including those that mediate reward, aversion to drug effects, and related decision making; and 3) develop novel strategies to therapeutically influence SUD-relevant brain circuits including transcranial magnetic and deep brain stimulation, and neurofeedback. Progress in these combined areas will revolutionize our ability to mitigate or even reverse the deleterious effects of SUDs.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$350.136 million, which is \$0.899 million or 0.3 percent less than the FY 2016 Enacted level.

Program Portrait: Big Data for Addiction Science

FY2016 Level: \$1.4 million FY2017 Level: \$1.4 million Change: \$0.0 million

The rapid progress of the past few years of addiction research has been fueled in part by technological advances, particularly in next-generation sequencing, genomics, epigenetics, epidemiology and neuroimaging. These advances have enhanced our understanding of the biological, developmental, and environmental factors that influence brain function in health and disease. And now 'Big Data' is providing unprecedented new opportunities to maximize the value of data, giving researchers the ability to analyze large amounts of data in new ways – turning vast datasets of complex information into knowledge.

Big Data is more than just large data sets; it refers to the complexity, challenges, and opportunities presented by combining and analyzing different types of data in an integrated way. In SUD research, these data sources include imaging, genetic, molecular, exposure, health, behavioral, and many other types of data being generated by researchers, hospitals, and mobile devices around the world. These data have the power to speed discovery of new treatments, to determine the genetic and environmental causes of SUDs, to support the development of precision medicine in healthcare, and so much more. There are certainly challenges to overcome – from how and where to store massive data sets; how to integrate and harmonize data; how to ensure data quality and consistency; how to facilitate efficient use of available data; how to foster a culture of open science and data sharing; how to ensure privacy and confidentiality; among others – but NIDA and the NIH Big Data to Knowledge (BD2K) program are committed to addressing these challenges and helping the biomedical research community harness the potential of Big Data.

NIDA's Addictome Project will work to develop a research database that integrates diverse multi-scale data sets that can be mined by the scientific community and visualized in a user-friendly framework to support discovery of novel relationships and scientific knowledge related to addiction. The Addictome will be a collection of numerous data types from diverse sources representing factors that contribute to an individual's risk for addiction across the lifespan. It will provide the infrastructure and tools necessary to enable investigation into how these diverse factors interact within and across individuals to influence addiction risk and lead to diverse substance use trajectories.

Epidemiology, Services, and Prevention Research: This portfolio supports integrated approaches to understand and develop strategies to address the interactions between individuals and environments that contribute to drug abuse and related problems. With a focus on research to inform public health, the program includes large surveys – such as the annual Monitoring the Future survey, which tracks drug use and related attitudes among teens – and surveillance networks to monitor issues and trends locally and nationally. NIDA's National Drug Early

Warning System (NDEWS) monitors emerging trends related to illicit drug use including designer synthetic compounds and heroin. NDEWS generates critical information about new drug trends in specific locations around the country so that rapid, informed, and effective public health responses can be developed and implemented precisely where and when they are needed. NIDA also supports research related to treatment of SUDs in the criminal justice system, including studies that pertain to the implementation of MAT and seek, test, treat, and retain (STTR) strategies for people with SUDs at risk for HIV. Program efforts also guide development of preventive interventions for a variety of populations; as well as research to optimize implementation and service delivery in real-world settings. The program also includes research to better understand the impact of policy changes related to substance use, including implementation of health reform and parity regulations and changes in State policies related to marijuana. Specifically, current research is examining the impact of health reform on access to quality treatment for persons with SUDs, as well as associations between changes in State marijuana policies and trends in use, harm perception, health consequences including trauma and car crashes, and educational outcomes, particularly for adolescents and young adults. Such knowledge can be then used to inform policy and to improve prevention and treatment interventions.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$323.375 million, which is \$0.830 million or 0.3 percent less than the FY 2016 Enacted level.

Program Portrait: Low-nicotine Cigarettes

FY2016 Level: \$0.6 million FY2017 Level: \$0.6 million Change: \$0.0 million

Smoking is the leading preventable cause of disease, disability, and death in the United States. Over 480,000 Americans die each year from smoking and second hand smoke exposure – more than from homicides, AIDS, suicide, and car crashes, combined. In 2014, an estimated 65.8 million people, including over three million adolescents, smoked cigarettes. To help address this problem, the Tobacco Control Act, signed in 2009, authorized FDA to establish the Center for Tobacco Products to ensure that evidence-based science informs related regulatory actions. In 2013, NIDA and other NIH ICs partnered with FDA to support the development and evaluation of tobacco product regulations through its Tobacco Regulatory Science Program (TRSP).

Reduction in nicotine content has been proposed as a potential regulatory measure to render cigarettes non-addictive and, consequently, to reduce smoke exposure and improve public health. Cigarettes with low nicotine content have been associated with positive outcomes such as reduced smoking and reduced nicotine exposure and dependence. Several studies supported through the NIDA TRSP initiative are building on this research to evaluate how low nicotine cigarettes affect exposure and addiction and how low dose nicotine cigarettes affect vulnerable populations. One study evaluated the effects of smoking cigarettes that contained different levels of nicotine among current smokers. The average number of cigarettes smoked per day was lower after six weeks in participants randomly assigned to cigarettes containing lower amounts of nicotine. Compared with the normal (control) cigarettes, the cigarettes with lower levels of nicotine decreased exposure to and dependence on nicotine and also craving during abstinence from smoking.

¹ U.S. Department of Health and Human Services. The health consequences of smoking—50 years of progress: a report of the Surgeon General. Atlanta, GA: US Department of Health and Human Services, CDC; 2014. Available at http://www.surgeongeneral.gov/library/reports/50-years-of-progress/full-report.pdf

² Results from the 2014 National Survey on Drug Use and Health: Summary of National Findings. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2015.

Another study supported through the TRSP initiative is examining how low nicotine cigarettes affect smoking behavior in vulnerable populations. These include women of childbearing age or pregnant women, individuals with comorbid substance use disorders, and individuals with comorbid serious mental illness. Each of these populations is at increased risk for tobacco use and addiction or tobacco related adverse health outcomes. Yet despite these serious vulnerabilities, these populations have typically been excluded from tobacco regulatory studies.

Therapeutics and Medical Consequences: Since the pharmaceutical industry has traditionally made limited investment in the development of medications for SUDs, the responsibility for their development has rested largely with NIDA; NIDA, therefore, has developed a program to develop therapeutics for the treatment of SUDs. To most effectively leverage NIDA resources, this program encourages the formation of alliances between strategic partners (pharmaceutical and biotechnology companies as well as academic institutions) with the common goal of advancing medications through the development pipeline toward FDA approval in a timely manner. NIDA supports research to decrease the risks associated with medications development to make it more appealing for pharmaceutical companies to complete costly Phase IIb and III clinical studies. An example of such a project is a partnership with AstraZeneca to explore a novel medication that modulates the activity of glutamate – an excitatory neurotransmitter – to treat drug addiction. Preclinical studies with this class of molecule indicate that it could be effective for treating abuse of various drugs such as tobacco and cocaine. Another example is a partnership with two biotechnology companies to support the development of an intranasal formulation of the opioid overdose reversal drug naloxone. In addition, NIDA collaborated with Teva Pharmaceutical Industries on a clinical trial to test the efficacy and safety of a cholinesterase compound that has shown promise in pre-clinical trials for the treatment of cocaine addiction. NIDA continues to actively seek potential partners in the pharmaceutical and biotechnology sectors to develop novel therapeutics for SUDs. For example, NIDA has invested in research supporting the development of vaccines and antibodies for the treatment of SUDs. One example of NIDA's efforts in this area is an ongoing collaboration with Selecta Biosciences to develop a novel nicotine vaccine. A lingering challenge that NIDA-supported research is working to address has been the development of vaccines that stimulate an immune response powerful enough to neutralize high concentrations of a drug before it enters the brain.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$178.380 million, which is \$0.458 million or 0.3 percent less than the FY 2016 Enacted level.

Program Portrait: Improving Adherence to Buprenorphine Treatment

FY 2016 Level: \$9.0 million FY 2017 Level: \$9.0 million Change: \$0.0 million

Opioid abuse continues to be a major public health crisis in the United States; while some progress has been made in reducing the misuse of prescription opioid medications, use of heroin has rapidly increased in recent years. In 2014, an estimated 1.9 million Americans over the age of 12 had an opioid use disorder related to prescription opioids, and nearly 590,000 had an opioid use disorder related to heroin use – a nearly three-fold increase since 2007.³ NIDA is working closely with Federal partners through the HHS Opioid Initiative to combat opioid abuse and overdose

³ http://www.samhsa.gov/data/sites/default/files/NSDUH-DetTabs2014/NSDUH-DetTabs2014.pdf

through a multi-pronged approach that emphasizes improving prescribing practices, increasing access to the overdose reversal drug naloxone, and expanding access to medication-assisted treatment (MAT).

MAT – an approach that combines pharmacotherapy and psychosocial treatment – is the standard of care for the treatment of opioid use disorders. Buprenorphine is one of three FDA-approved medications that has been shown to be a safe and highly effective treatment for opioid addiction. NIDA has partnered with Titan Pharmaceuticals and Braeburn Pharmaceuticals to develop an implantable continuous delivery formulation of buprenorphine. This formulation, called Probuphine, would be implanted under the skin to deliver a steady dose of buprenorphine for six months, an innovation that improve the efficacy and acceptance of buprenorphine maintenance treatment by: 1) removing the need to take a daily pill, promoting continuous patient adherence; 2) preventing diversion of the drug; and 3) eliminating the risk of accidental ingestion by children. On September 28, 2015, FDA accepted a resubmission of the Probuphine New Drug Application (NDA) that includes results from a Phase III double-blind clinical study.

The development of Probuphine through this public-private partnership is illustrative of NIDA's commitment to supporting innovations in SUD treatment that can effectively be brought to market. Widespread availability of safe, effective, and easily administered medications for addiction treatment is vital to reducing the serious harms, including overdose and death, that are associated with opioid use disorder.

Clinical Trials Network (CTN): CTN comprises 13 research nodes and more than 240 community treatment programs and/or medical settings in over 40 States plus the District of Columbia and Puerto Rico. Current initiatives are emphasizing research to develop and test strategies for the integration of SUD treatment into mainstream general medical settings, embedding research in clinical practice, and enhancing capacity to leverage electronic health record data in research studies. Through collaborations with clinical investigators, CTN generates research-based strategies needed for the integrated management of patients with substance misuse/SUD in general medical settings and linked specialty care treatment settings. CTN develops and tests the feasibility and effectiveness of interventions and health system approaches for SUDs and related disorders, such as co-occurring mental health disorders and HIV, in diverse patient populations. CTN is currently conducting studies evaluating: 1) a comparison of Vivitrol® (extended-release naltrexone) to Suboxone® (buprenorphine and naloxone) Sublingual Film for patients addicted to heroin or other opioids, including prescription pain relievers; 2) a combination therapy with Vivitrol® plus Wellbutrin XL® (bupropion hydrochloride, Extended-release Tablets) for treatment of methamphetamine addiction; 3) Vivitrol® for HIV-positive opioid users in HIV treatment settings; and 4) a brief screening and assessment instrument to identify patients with substance misuse and SUDs in general medical settings. Research under development includes several studies which will utilize electronic health record data from large healthcare systems to enable larger, more efficient research trials.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$43.140 million, which is \$0.111 million or 0.3 percent less than the FY 2016 Enacted level.

Intramural Research Program (IRP): IRP performs cutting-edge research within a coordinated multidisciplinary framework to: 1) elucidate the nature of the addictive process; 2) evaluate the potential of emerging new therapies for SUDs, both pharmacological and psychosocial; and 3) describe the long-term consequences of drugs of abuse on systems and organs, with particular emphasis on the brain and its development, maturation, function, and structure. For example, IRP is furthering SUD research by collaborating with pharmaceutical industry partners to study a potential medication that can decrease methamphetamine craving. In

addition, IRP is working to understand the impact of long lasting deficits in the prefrontal cortex – an area of the brain that mediates decision making – caused by cocaine and heroin use. In an animal model, scientists can reverse this deficit by hyper-stimulating the prefrontal cortex for brief periods. This intervention is being developed as a possible therapy for addiction. IRP is also working to develop clinically useful indicators (biomarkers) of nicotine addiction severity or treatment efficacy. Scientists are using brain imaging along with genetic and epigenetic data to develop quantitative addiction markers that will support the development of more efficacious treatments and discovery of novel treatment targets. IRP scientists are also working to better understand factors that contribute to cravings and relapse. Memories of items, people, or environments that are present when addicted individuals take drugs become powerful cues that trigger them to relapse again and again. Scientists have shown that these memories are stored in specific patterns of neurons called neuronal ensembles in the brain. Researchers have been successful in inactivating these drug-related ensembles and memories in animal models, and are developing similar procedures that might be used in humans to selectively impair harmful addiction memories. In addition, IRP scientists are developing a mobile health toolbox to collect data on the daily-life reality of addiction. These tools can support intensive assessments to help identify individual and environmental influences on drug craving and use to understand when people are most vulnerable to relapse. One of the goals of this research is to deploy a mobile intervention that will automatically predict imminent drug use and deliver help just when a person needs it.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$91.657 million, which is \$1.354 million or 1.5 percent more than the FY 2016 Enacted level.

Research Management and Support (RMS): RMS activities provide administrative, budgetary, logistical, and scientific support in the review, award, and monitoring of research grants, training awards, and research and development contracts. Additionally, the functions of RMS encompass strategic planning, coordination, and evaluation of NIDA's programs, regulatory compliance, international coordination, and liaison with other Federal agencies, Congress, and the public. NIDA currently oversees more than 1,600 research grants and more than 100 research and development contracts. In addition to the infrastructure required to support research and training, NIDA also strives to provide evidence-based resources and educational materials about SUDs and to raise awareness of the science relating to cutting-edge issues such as opioid overdose prevention, marijuana research, synthetic drug trends, and Medication Assisted Treatments.

<u>Budget Policy</u>: The FY 2017 Budget estimate is \$63.862 million, which is \$0.944million or 1.5 percent more than the FY 2016 Enacted level.

Education and Outreach: NIDA is committed to working with broad range of stakeholders including scientific, professional, patient, and family organizations that comprise the substance abuse field. We partner on a variety of efforts to widely disseminate scientific information to support the successful implementation of evidence-based practices.

Healthcare providers are a key target audience for NIDA's outreach efforts. NIDA leads the NIH Pain Consortium Centers of Excellence in Pain Education (CoEPEs); these 12 centers work to enhance patient outcomes by improving the education of healthcare professionals about pain

and its treatment. The CoEPEs act as hubs for the development, evaluation, and distribution of pain management curriculum resources for medical, dental, nursing, and pharmacy schools to improve how health care professionals are taught about pain and its treatment. In addition, NIDA supports an initiative known as NIDAMED to develop resources to educate healthcare providers on issues related to substance use and addiction and to increase awareness of the impact of substance use on patient health. Through this project, NIDA is currently creating multiple continuing medical education (CME) online modules that focus on: 1) prescription opioids; 2) marijuana; 3) screening for substance use; 4) key messaging to communicate to adolescents and their caregivers about drugs; 5) successful ways for clinicians to engage in conversations with adolescents (ages 13-18) and their parents; and 6) how best to address issues such as privacy and confidentiality. CME will also create clinician/patient communication tools, which may include brochures/handouts or an in-office, mobile ready game or app that clinicians can use with adolescents to help initiate a conversation about substance use and provide information about the consequences of use. This initiative aims to train 28,000 clinicians in prevention of SUDs in adolescents by October 2019.

NIDA also is committed to being at the forefront of training the next generation of innovative researchers by supporting both pre-doctoral and postdoctoral-level scientists interested in drug abuse research. These efforts also focus on increasing the number of underrepresented scholars and researchers, including women and minorities, actively participating in drug abuse research through our outreach, and sponsored career development and research training opportunities.

Budget Authority by Object Class¹

| | | FY 2016 Enacted | FY 2017 President's Budget ² | FY 2017 +/- FY 2016 |
|-----------|---------------------------------------------------------|-----------------|--------------------------------------------|---------------------------|
| Total cor | mpensable workyears: | | | |
| | Full-time employment | 400 | 400 | 0 |
| | Full-time equivalent of overtime and holiday hours | 0 | 0 | 0 |
| | Average ES salary | \$183 | \$186 | \$2 |
| | Average GM/GS grade | 12.6 | 12.6 | 0.0 |
| | Average GM/GS salary | \$108 | \$110 | \$1 |
| | Average salary, grade established by act of July 1, | \$109 | \$110 | \$1 |
| | 1944 (42 U.S.C. 207) | \$109 | \$110 | φı |
| | Average salary of ungraded positions | \$145 | \$147 | \$2 |
| | OBJECT CLASSES | FY 2016 Enacted | FY 2017 President's Budget² | FY 2017 +/- FY 2016 |
| | Personnel Compensation | | | |
| 11.1 | Full-Time Permanent | \$29,154 | \$29,376 | \$222 |
| 11.3 | Other Than Full-Time Permanent | 10,913 | 10,996 | 83 |
| 11.5 | Other Personnel Compensation | 1,008 | 1,016 | 8 |
| 11.7 | Military Personnel | 862 | 868 | 7 |
| 11.8 | Special Personnel Services Payments | 4,749 | 4,785 | 36 |
| 11.9 | Subtotal Personnel Compensation | \$46,686 | \$47,042 | \$356 |
| 12.1 | Civilian Personnel Benefits | \$13,390 | \$13,656 | \$265 |
| 12.2 | Military Personnel Benefits | 499 | 502 | 4 |
| 13.0 | Benefits to Former Personnel | 0 | 0 | 0 |
| | Subtotal Pay Costs | \$60,575 | \$61,200 | \$625 |
| 21.0 | Travel & Transportation of Persons | \$861 | \$861 | \$0 |
| 22.0 | Transportation of Things | 131 | 131 | 0 |
| 23.1 | Rental Payments to GSA | 0 | 0 | 0 |
| 23.2 | Rental Payments to Others | 0 | 0 | 0 |
| 23.3 | Communications, Utilities & Misc. Charges | 432 | 432 | 0 |
| 24.0 | Printing & Reproduction | 1 | 1 | 0 |
| 25.1 | Consulting Services | \$1,052 | \$1,052 | \$0 |
| 25.2 | Other Services | 6,149 | 6,149 | 0 |
| 25.3 | Purchase of goods and services from government accounts | 111,756 | 119,300 | 7,544 |
| 25.4 | Operation & Maintenance of Facilities | \$1,704 | \$1,704 | \$0 |
| 25.5 | R&D Contracts | 38,574 | 38,482 | -93 |
| 25.6 | Medical Care | 307 | 307 | 0 |
| 25.7 | Operation & Maintenance of Equipment | 1,903 | 1,903 | 0 |
| 25.8 | Subsistence & Support of Persons | 0 | 0 | 0 |
| 25.0 | Subtotal Other Contractual Services | \$161,445 | \$168,897 | \$7,451 |
| 26.0 | Supplies & Materials | \$5,010 | \$5,010 | \$0 |
| 31.0 | Equipment | 5,256 | 5,256 | 0 |
| 32.0 | Land and Structures | 0 | 0 | 0 |
| 33.0 | Investments & Loans | 016.027 | 000 7(1 | 0.076 |
| 41.0 | Grants, Subsidies & Contributions | 816,837 | 808,761 | -8,076 |
| 42.0 | Insurance Claims & Indemnities Interest & Dividends | 0 | 0 | 0 |
| 43.0 | | 2 | 2 | 0 |
| 44.0 | Refunds Subtotal Non-Pay Costs | \$989,975 | \$989,350 | -\$625 |
| | Total Budget Authority by Object Class | \$1,050,550 | \$1,050,550 | -\$025 \$0 |

Includes FTEs whose payroll obligations are supported by the NIH Common Fund.
 Includes mandatory financing.

Salaries and Expenses

| OBJECT CLASSES | FY 2016 Enacted | FY 2017 President's Budget | FY 2017 +/- FY 2016 | |
|--------------------------------------------------|-----------------|-------------------------------|---------------------------|--|
| Personnel Compensation | | | | |
| Full-Time Permanent (11.1) | \$29,154 | \$29,376 | \$222 | |
| Other Than Full-Time Permanent (11.3) | 10,913 | 10,996 | 83 | |
| Other Personnel Compensation (11.5) | 1,008 | 1,016 | 8 | |
| Military Personnel (11.7) | 862 | 868 | 7 | |
| Special Personnel Services Payments (11.8) | 4,749 | 4,785 | 36 | |
| Subtotal Personnel Compensation (11.9) | \$46,686 | \$47,042 | \$356 | |
| Civilian Personnel Benefits (12.1) | \$13,390 | \$13,656 | \$265 | |
| Military Personnel Benefits (12.2) | 499 | 502 | 4 | |
| Benefits to Former Personnel (13.0) | 0 | 0 | 0 | |
| Subtotal Pay Costs | \$60,575 | \$61,200 | \$625 | |
| Travel & Transportation of Persons (21.0) | \$861 | \$861 | \$0 | |
| Transportation of Things (22.0) | 131 | 131 | 0 | |
| Rental Payments to Others (23.2) | 0 | 0 | 0 | |
| Communications, Utilities & Misc. Charges (23.3) | 432 | 432 | 0 | |
| Printing & Reproduction (24.0) | 1 | 1 | 0 | |
| Other Contractual Services: | | | | |
| Consultant Services (25.1) | 923 | 923 | 0 | |
| Other Services (25.2) | 6,149 | 6,149 | 0 | |
| Purchases from government accounts (25.3) | 74,294 | 76,060 | 1,766 | |
| Operation & Maintenance of Facilities (25.4) | 1,704 | 1,704 | 0 | |
| Operation & Maintenance of Equipment (25.7) | 1,903 | 1,903 | 0 | |
| Subsistence & Support of Persons (25.8) | 0 | 0 | 0 | |
| Subtotal Other Contractual Services | \$84,972 | \$86,739 | \$1,766 | |
| Supplies & Materials (26.0) | \$5,010 | \$5,010 | \$0 | |
| Subtotal Non-Pay Costs | \$91,408 | \$93,174 | \$1,766 | |
| Total Administrative Costs | \$151,983 | \$154,374 | \$2,391 | |

Detail of Full-Time Equivalent Employment (FTE)

| | F | Y 2015 Actua | al | | FY 2016 Est. | | | FY 2017 Est. | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|----------|----------|--------------|----------|----------|--------------|----------|
| OFFICE/DIVISION | Civilian | Military | Total | Civilian | Military | Total | Civilian | Military | Total |
| Center for the Clinical Trials Network | | | | | | | | | |
| Direct: | 13 | 1 | 14 | 12 | 1 | 13 | 12 | 1 | 13 |
| Reimbursable: Total: | 13 | - 1 | - 14 | 12 | - 1 | 13 | - 12 | - 1 | 13 |
| Total. | 13 | Ī | 14 | 12 | 1 | 13 | 12 | Ī | 15 |
| Division of Basic Neuroscience & Behavioral Research | 2.4 | | 2.4 | | | | | | |
| Direct: Reimbursable: | 24 | - | 24 | - | - | - | - | - | - |
| Total: | 24 | - | 24 | - | - | - | - | - | - |
| | | | | | | | | | |
| Division of Clinical Neuroscience and Behavioral Research | | | | | | | | | |
| Direct: Reimbursable: | 15 | - | 15 | - | - | - | - | - | - |
| Total: | 15 | - | 15 | - | - | - | - | - | - |
| | | | | | | | | | |
| Division of Epidemiology, Services and Prevention Research | | | | | | | | | |
| Direct: | 24 2 | 1 | 25 | 29 | 1 | 30 2 | 29 2 | 1 | 30 |
| Reimbursable: Total: | 26 | 1 | 2 27 | 2 31 | 1 | 32 | 31 | 1 | 2 32 |
| Division of the state of the st | | | | | | | | | |
| Division of Extramural Research Direct: | 34 | _ | 34 | 38 | _ | 38 | 38 | _ | 38 |
| Reimbursable: | - | - | - | - | - | - | - | - | - |
| Total: | 34 | - | 34 | 38 | - | 38 | 38 | - | 38 |
| Division of Neuroscience and Behavior | | | | | | | | | |
| Direct: | | | - | 30 | | 30 | 30 | | 30 |
| Reimbursable: Total: | - | - | - | 30 | - | 30 | 30 | - | 30 |
| | | | | | | | | | |
| Division of Pharmacotherapies and Medical Consequences of Drug Abuse | | | | | | | | | |
| Direct: | 31 | - | 31 | - | - | - | - | - | - |
| Reimbursable: Total: | 31 | - | 31 | - | - | - | - | - | - |
| Total. | 31 | _ | 31 | _ | | _ | - | _ | |
| Division of Therapeutics and Medical Consequences | | | | 22 | | 22 | 22 | | 22 |
| Direct: Reimbursable: | _ | _ | - | 33 | _ | 33 | 33 | _ | 33 |
| Total: | | | - | 33 | | 33 | 33 | | 33 |
| Intramural Research Program | | | | | | | | | |
| Direct: | 125 | - | 125 | 126 | - | 126 | 126 | - | 126 |
| Reimbursable: Total: | 3 128 | - | 3 128 | 3 129 | - | 3 129 | 3 129 | - | 3 129 |
| | | | | | | | | | |
| Office of Management Direct: | 41 | | 41 | 41 | | 41 | 41 | | 41 |
| Reimbursable: | 36 | - | 36 | 36 | - | 36 | 36 | - | 36 |
| Total: | 77 | - | 77 | 77 | - | 77 | 77 | - | 77 |
| Office of Science Policy and Communication | | | | | | | | | |
| Direct: | 27 | - | 27 | 27 | - | 27 | 27 | - | 27 |
| Reimbursable: Total: | 27 | - | 27 | - 27 | _ | 27 | - 27 | - | - 27 |
| | | | | | | | | | |
| Office of the Director Direct: | 19 | _ | 19 | 21 | | 21 | 21 | _ | 21 |
| Reimbursable: | - | - | - | - | - | - | - | - | - |
| Total: | 19 | - | 19 | 21 | - | 21 | 21 | - | 21 |
| Total | 394 | 2 | 396 | 398 | 2 | 400 | 398 | 2 | 400 |
| Includes FTEs whose payroll obligations are supported by the | NIH Common | Fund. | | | | | 1 | | |
| FTEs supported by funds from Cooperative Research and Development Agreements. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCAL YEAR | Average GS Grade | | | | | | | | |
| 2013 | 12.8 | | | | | | | | |
| 2014 | 12.7 | | | | | | | | |
| 2015 2016 | 12.5 12.6 | | | | | | | | |
| 2016 2017 | | | | | 12.6 | | | | |
| | | | D 4 22 | | | | | | |

Detail of Positions¹

| GRADE | FY 2015 Actual | FY 2016 Enacted | FY 2017 President's Budget |
|-----------------------------------------------------------|----------------|-----------------|-------------------------------|
| Total, ES Positions | 1 | 1 | 1 |
| Total, ES Salary | 181,500 | 183,300 | 185,500 |
| GM/GS-15 | 152,806 | 154,640 | 156,495 |
| GM/GS-14 | 132,007 | 133,591 | 135,194 |
| GM/GS-13 | 106,315 | 107,591 | 108,882 |
| GS-12 | 90,973 | 92,065 | 93,169 |
| GS-11 | 70,246 | 71,089 | 71,942 |
| GS-10 | 0 | 0 | 0 |
| GS-9 | 58,408 | 59,109 | 59,818 |
| GS-8 | 59,013 | 59,721 | 60,438 |
| GS-7 | 49,155 | 49,745 | 50,342 |
| GS-6 | 48,436 | 49,017 | 49,605 |
| GS-5 | 38,236 | 38,695 | 39,159 |
| GS-4 | 31,069 | 31,442 | 31,819 |
| GS-3 | 27,675 | 28,007 | 28,343 |
| GS-2 | 0 | 0 | 0 |
| GS-1 | 0 | 0 | 0 |
| Subtotal | 864,339 | 874,712 | 885,206 |
| Grades established by Act of July 1, 1944 (42 U.S.C. 207) | 0 | 0 | 0 |
| Assistant Surgeon General | 0 | 0 | 0 |
| Director Grade | 120,221 | 121,664 | 123,124 |
| Senior Grade | 96,636 | 97,796 | 98,969 |
| Full Grade | 0 | 0 | 0 |
| Senior Assistant Grade | 0 | 0 | 0 |
| Assistant Grade | 0 | 0 | 0 |
| Subtotal | 216,857 | 219,460 | 222,093 |
| Ungraded | 143,607 | 145,330 | 147,074 |
| Total permanent positions | 317 | 321 | 321 |
| Total positions, end of year | 409 | 413 | 413 |
| Total full-time equivalent (FTE) employment, end of year | 396 | 400 | 400 |
| Average ES salary | 181,500 | 183,300 | 185,500 |
| Average GM/GS grade | 12.5 | 12.6 | 12.6 |
| Average GM/GS salary | 108,455 | 108,384 | 109,685 |

¹ Includes FTEs whose payroll obligations are supported by the NIH Common Fund.